



# The ILLINOIS ENGINEER

## ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS

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### REPORT OF THE BOARD OF DIRECTION MEETING AND ANNUAL MEETING, N.S.P.E., MINNEAPOLIS, JUNE 14, 15, & 16, 1951

W. A. OLIVER, National Director

There are now thirty-seven member societies affiliated in the National Society of Professional Engineers including the District of Columbia and Puerto Rico. Alabama was admitted to membership at Minneapolis. Nebraska is just in the process of formulating an acceptable constitution and will be admitted to membership in the immediate future. With a total individual membership of over 25,000 and an annual budget of \$170,000, it can be seen that the N.S.P.E. is assuming an increasing importance in the affairs of the engineering profession in the United States.

Probably the most important function that the N.S.P.E. performs in the affairs of the professional engineer is its activity with national legislation. Members of the Washington staff, headed by Executive Director Paul H. Robbins, have appeared before several Congressional committees on items of interest to the profession. Among them have been the manpower problem and the Air Force Reorganization bill. Through the Legislative Analyst, Mr. Arthur Woods, and the various services available in Washington, close tab is kept on all bills introduced into the Houses of Congress to determine which of them may have particular import to professional engineers. Detailed information concerning these activities has been printed in the *American Engineer*.

The Public Relations Program for which voluntary contributions were requested has moved into high gear. At the present time there is available the sum of approximately \$26,000 contributed by some 3000 members of the Society. The program has been designed in such a way that its total cost can be kept within the amount of money available and still be expanded into a continuing, logical development of the original plan when additional funds have been collected. It was stated that a third and final request to the membership to participate in the program has been sent out.

The principles to be applied and the first group to be approached in the implementation of the Public Relations Program are set forth in the following sentences taken from the Little Rock report of the Committee.

"Our public relations or professional recognition must be founded on the *Service Motive*: Service to fellow engineers, service to employers of the engineer, and service to the public. Our *Selected Target*—The employers of Professional Engineers who deal

### VOX SECRETARII

Assistant Secretary Roberts is taking a well earned vacation so that his long established column does not appear in this month's issue of the *Illinois Engineer*. However, there is no reason why this statement should not close after the manner of Skeets — GET A NEW MEMBER! GET TWO!

### COST OF LIVING INDEX

The correction factor to be applied to the I. S. P. E. Schedule of Minimum Fees and Salaries was 185.4 for May, 1951. The factor is based upon the U. S. Department of Labor's most recent Consumer Price Index.

with them as employees or who are the clients of engineers in private practice, and the Educators of Engineers. By educating this group to the value of using Registered Professional Engineers, we will gain recognition from this group and the general public will be influenced on an institutional basis through these organizations."

The state and chapter organizations should be cognizant of the part they will now play individually and as groups in this public relations activity, such as collecting names of companies and important individuals for contact, conducting surveys with important companies in their area and following through to obtain the maximum benefit of the activities being prepared under the direction of the Society's Public Relations Council.

A particularly interesting development which is taking place in the National Society and which received attention at Minneapolis is the institution of women's auxiliaries. This movement is especially strong in the southwest but groups have also been established in such states as Ohio and New Jersey. The objectives of such women's auxiliaries can best be expressed by giving the purpose of the organization as set forth in the constitution of the Tulsa, O.S.P.E. Auxiliary.

"The purpose of this organization shall be to advance the profession of engineering by promoting friendship, social and educational contacts among engineers and their families."

The idea of women's auxiliaries is not new. The American Medical Association has a very large and active one and certain engineering societies also have them.

### SUBSCRIPTION RATES

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One obvious advantage of such women's groups would be to have an established organization to take charge of the Ladies' Program at the annual meetings of the various state societies.

At the meeting of the Board of Direction of I.S.P.E. on May 19, 1951, the National Director was instructed to formulate and present a resolution to the Board of Direction of the N.S.P.E. at the meeting in Minneapolis, proposing the elimination of the requirement of registration as a qualification for membership in National. The following resolution was presented.

WHEREAS, the requirement of registration as a qualification of membership in the N.S.P.E. holds many highly qualified professional engineers from membership in the National Society and thus hampers the growth of the Society and, furthermore, whereas, this requirement has been a hindrance in the efforts of the N.S.P.E. toward the Unification of the Profession;

NOW THEREFORE BE IT RESOLVED, that the National Society of Professional Engineers be requested to modify their constitution so that registration as a qualification for membership in the N.S.P.E. be no longer mandatory.

In presenting this resolution to the meeting, the Resolutions Committee recommended its rejection and this was emphatically carried out by the Board, Illinois being the only state which opposed the recommendation. The basic reason for the rejection was the opinion that the N.S.P.E. was founded upon registration as a requirement for membership and to discard the requirement at this time would remove one of the corner stones of the Society.

The problem of national defense in all of its aspects was given due attention at Minneapolis. The work is going forward at all levels but apparently not as rapidly as it should. Local agencies seem to be handicapped by inertia on the part of the federal authorities in Washington. The Membership of the Society is playing a prominent role in both the state and national phases of this vital activity.

Mr. Alex Van Praag reported to the Annual Meeting of the N.S.P.E. on the present status of progress toward the unification of the profession. While there was some expression of opinion favoring Plan C, which would merge the activities of N.S.P.E. and E.J.C., the preponderance of opinion seemed to favor Plan D, which contemplates the expansion of N.S.P.E. and the elimination of E.J.C. There is to be a meeting of the Exploratory Group in August at which time it is expected that this committee, which represents sixteen engineering societies including the N.S.P.E., will take some sort of action concerning the four plans. This is a matter of considerable interest to every engineer and the results of this meeting will be awaited with interest.

As usual this report covers only those activities of National which are considered to be of greatest importance to the membership of the I.S.P.E. For further details read the pages of the *Illinois Engineer* and the *American Engineer*.

## Paul B. Wilson

Paul B. Wilson, 73, Marion Civil Engineer, civic, educational, and church leader, died March 4, 1951, from illness diagnosed as cancer of the lung. He was active in the pursuit of his engineering career until just before his death.

Born in Dublin, Indiana, he attended high school in Richmond, Indiana, and graduated from Earlham College in 1898. Mr. Wilson made his home at Marion, Illinois, where he worked for the American Creosote Company for a short time before going into business for himself as a Civil Engineer. He served Williams County as County Superintendent of Highways during the first World War.

Specializing in construction of streets, highways, sidewalks, water and sewage systems, he was the engineer in charge of some of the early municipal improvements in Marion, Cartersville, West Frankfort, Eldorado, Pittsburg, Creal Springs, Mounds, Mounds City, Mt. Vernon and the surrounding community.

In 1916 Mr. Wilson was made Vice President of the State Association of Illinois County Highway Superintendents. He was associated with the Illinois Society of Professional Engineers for many years, serving on numerous committees and was Vice President of the Egyptian Chapter in 1945 and 1946.

Mr. Wilson was a competent engineer, a fine gentleman, and a credit to his profession. The Illinois Society of Professional Engineers notes with regret the death of this long-time member.

### A. M. FROST ACCEPTS TEMPORARY ASSIGNMENT IN D. C.

(From Capital Chapter Chatter)

As one of the Chapter's "idea" men, "Al" served indefatigably as Secretary, "Veep," President, Chapter Representative, and Chairman of the Public Relations Committee through the period when Capital has doubled its membership and has taken an important place in I.S.P.E. and N.S.P.E.

He will be with the Materials Equipment Requirements Branch, Defense Electric Power Administration, U. S. Department of the Interior, working on the control and allocation of materials for electric power industries under Secretary Chapman.

The Chapter will be proud of its contribution to government management—but we are happy that it's temporary, that "Al" will be only on leave of absence from his City Hall office, and that he will rejoin us again.

### HERMAN DORN ACCEPTS NEW RESPONSIBILITY

Mr. Herman Dorn, President, Central Illinois Chapter, I.S.P.E., has just been elected president of the Frozen Foods Institute of New York City in accordance with word received from N. Kessler, the Chapter's Public Relations Chairman.



## Illinois Society of Professional Engineers

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### Monthly Meeting—June 5, 1951

W. L. Everitt, Dean of Engineering, University of Illinois, discussed the present reactions between the curriculum, the instructor and the student. He pointed out the various points of impact between the triumvirate and indicated that each influenced the other and, of course, that the ultimate aim of testing and instructions was to produce an end product of a higher quality than was produced heretofore. He also outlined in his talk the means at our disposal and the method of procedure to follow in the solving, or partial solving, of any problem of any nature and pointed out to the engineering society how they could influence the education of the engineering student.

### Membership

H. F. Sommerschild, chairman of the membership committee, states that the membership campaign is getting into full swing. Applications are beginning to come in in greater numbers. Present records show 17 new applications since the first of the year. Have you obtained your applicant? The membership committee urges you to obtain your quota as soon as possible. Remember a strong society will be realized only when our members increase. If you have not already obtained your applicant, please help the committee make our chapter a leader by obtaining your applicant.

Our goal is 60 and the time is getting short. Speak to your engineer friends today.

This chapter has been authorized to accept for membership qualified Professional Engineers who are not registered.

### Personals

Allan Drachman, U. S. Gypsum Company, was in charge of an inspection trip where 250 people, all from the Chicago office and the Research Laboratory, inspected a flow of materials through the East Chicago Plant.

Mr. F. W. Edwards, Vice President of the Chicago Chapter, attended the N.S.P.E. in Minneapolis as a representative of the Educational Committee N.S.P.E., also delegate of the I.S.P.E. on June 16. No one else from the Chicago Chapter was present.

The following members of the DuKane Chapter were present at our June 5 meeting: J. F. Bateman, G. M. Booth, Jr., R. T. Cash, R. M. Roy, R. A. Watson, W. R. Lawson, E. N. Wyman, H. J. Shaner, E. W. Cooney, W. E. Deuchler. The Chicago Chapter welcomed the above members and promised to return their visit.

### Honorary Awards

Mr. Ernie Nordquist, who won a Junior Honorary Award in 1950, was selected as chairman of the Award Committee this year. The four men who were presented with the membership certificates and paid up dues by Dean Everitt at the June meeting are: James John

Lang, a graduate Mechanical Engineer of the Illinois Institute of Technology, scholastic honors, Tau Beta Pi, Pi Tau Sigma, Open House Chairman, Secretary of the Co-op Club, member of the election committee of the Illinois Technology Student Association, member of the A.S.M.E., and very active in intramural sports; John Wm. Scannell, graduate of Department of Electrical Engineering at Illinois Institute of Technology, scholastic honors, Tau Beta Pi, Eta Kappa Nu, Vice President of the Junior class, Editor of the Technology News and listed in Who's Who in the American College Student; Albert G. Down, graduate of Department of Mechanical Engineering, Northwestern University, scholastic honors, Tau Beta Pi, Pi Tau Sigma, Pi Mu Epsilon, recording secretary of Pi Tau Sigma and also president, representative of Tau Beta Pi on Engineering Societies Council, on the editorial staff of the Northwestern Engineer, editor for one quarter, treasurer of the A.S.M.E., member of the American Foundrymen's Society. Mr. Down is going after his Master's degree in Mechanical Engineering; Donald B. Robinson, Jr., graduate of Department of Electrical Engineering, Northwestern University, scholastic honors, Eta Kappa Nu, Tau Beta Pi, Pi Mu Epsilon, on the staff of the Northwestern Engineer, chairman of St. Pat's Ball, member of A.I.E.E.

### Past Meetings

Mr. William O. Swinyard has given the Chicago Chapter of the Illinois Society of Professional Engineers a program of considerable interest in the past six months. In the January meeting Raymond D. Meade gave a talk on "Observations of Korea." The February meeting was devoted exclusively to discussing "what can this chapter do in relation to improving the economic status of the Engineer?" At the March meeting Mr. Wayland B. Cedarquist spoke on the subject of "Bringing the Illinois Constitution Up to Date." At the April meeting Dean W. Eshback talked on the "Matters of Current Concern to Industry and Education." The May meeting Kenneth M. Morse spoke on the subject, "Radiological Defense in the Chicago Area." At the June meeting Dean Everitt discussed "Responsibilities of the Professional Society and the Education of the Engineer." The Chicago Chapter will be looking forward to the fall meetings and the program that Mr. Swinyard will have in store for us.

### Publicity

President George DeMent called attention to all the members at the June 5th meeting held at Navy Pier to the fact that the chairman of the Publicity Committee would like to receive news about the members of this Chapter, to help compile the page of Chicago Chapter News which will be printed in the summer editions of the *Illinois Engineer*.



# News From Chapters

## Madison County Chapter

Sixteen members and two applicants were present at the meeting called to order by Pres. Shanahan on the evening of April 10, 1951, in the conference room of the Central Office of the Illinois Bell Telephone Company, at Alton. This improvement over recent attendance was due to more favorable weather, and the fact that this opportunity to see the operation of the modern telephone central office was carried out under strict security regulation. Each guide escorted a group of not more than five visitors, with the result that everyone could see and hear clearly.

The comparatively new service of "long-distance dialing" was carefully explained. The tour was arranged by our Chapter Vice.-Pres., Communications Engineer Chas. Graves.

L. K. MEYER, *Secretary*

## DuKane Chapter

The regular April meeting was held April 19, 1951 at the Red Lion Inn. An attendance of 31 members and guests enjoyed a roast pork and dressing dinner.

The minutes of the March meeting were read and approved.

Eng'r Charles Vranek gave his report, a condensation of the Report on Unification of the Engineering Profession as set forth by the Exploratory Group of the Engineers' Joint Council and 11 other National Societies. It was pointed out that the N.S.P.E. has only 3 out of a total of 29 votes in the Exploratory Group. A suggestion was made that an entire evening of a future meeting be devoted to further discussion of the four plans presented.

Eng'r Victor Anderson, representing the Membership Committee, gave an excellent report on the April 14th Peoria meeting of I.S.P.E. Chapter Presidents, Secretaries, and Membership Chairmen. The meeting was also attended by Pres. Bateman, and Sec'y Booth and covered nearly all I.S.P.E. problems and activities with particular emphasis on membership drive programs.

Pres. Bateman complimented Publicity Chairman Wilson on the excellent publicity work he has been doing.

The State Headquarters has requested that the Chapters discuss the changing of the date of our Annual Meeting to insure better weather conditions. After some discussion of the possible advantages and obvious fiscal year complications, it was moved by Eng'r Cash, seconded by Eng'r W. A. Rakow, and carried by the Chapter to instruct our Representative to vote with the majority when the question comes up at a Directors' meeting.

Prof. C. I. Carlson, of the U of I Navy Pier Branch, invited the Chapter to attend the June 5th meeting of the Chicago Chapter which will probably be held at Navy Pier. Principal speaker will be Dean W. L. Everitt

of the U. of I. College of Engineering. It was decided to table the matter and bring it up again at the May meeting.

Eng'r Ross brought up the question of the proposed increase in the Illinois gasoline tax. He discussed the two bills now before the Legislature and submitted a motion that the Chapter go on record as advocating an increase to a total of 7c per gallon instead of a total of 5c per gallon, and so advise the legislators. Seconded by Eng'r Wilson who furthered the discussion of benefits. Eng'r Cash discussed the present status of legislation and the real need for the 7c tax rate to make possible for the State, Counties, and Cities to keep our roads in a condition satisfactory to the motoring public. Eng'r Deuchler pointed out the need for a definite program to utilize the tax monies where most needed as recommended by the Division of Highways. The original motion was amended to include this provision, and the amended motion was unanimously carried.

To date, the Chapter has operated without the collection of local dues, but it has been difficult to keep it in the black. A collection taken up benefited the treasury considerably.

Pres. Bateman introduced Mr. Robert Ziegler of Aurora who is Chief of the Control Tower Operators at the Chicago Midway Airport. He presented a movie which illustrated the latest method in air traffic control, G.C.A. (Ground Controlled Approach by radar). Control of commercial air traffic originated in about 1936. The tremendous increase in the popularity of aviation during and after the last war emphasized the importance of control of air traffic, which is a problem in three dimensions. Midway Airport handles from 700 to 800 flights daily, the concentration being in the late afternoon and early evening. High frequency radio (V.H.F.) is now being used for instrument control of air traffic since it eliminates nearly all interference from static which formerly was a serious problem with low frequency radio. Narrow beam V.H.F. signals are sent out from the control center (effective range 30 miles) and a 3 degree glide angle beam is used. At the present time, the interval of time between instrument landings is only 3 minutes. Aircraft waiting to land are "stacked" at 1000 foot elevation intervals beginning at 2500 feet. The movie and subsequent discussion period proved to be very interesting to the group.

Meeting adjourned at 10:00 p.m.

DOUGLAS E. DREIER, *V. P. and Acting Sec'y*

## Ambraw Chapter

The regular meeting of the Ambraw Chapter of the Illinois Society of Professional Engineers was held at the Winter Garden Club, Lawrenceville, Illinois, on April 18, 1951, with President B. P. Johnson, presiding.

Dinner was served at 7:00 p.m. to sixteen members.



and four guests. Meeting was called to order at 8:00 p.m.

Minutes of the previous meeting were read and approved.

It was moved by Mr. Connor and seconded by Mr. Hemline that the following bills be allowed:

For dinners not cancelled at meeting of Feb. 28..\$6.00

For stenographic services..... 5.00

The motion carried.

President B. P. Johnson and Mr. D. R. Connor gave short reports on the Peoria meeting—stating the feeling for a membership drive.

A discussion as to the choice of time for holding of the state meeting was followed by a motion by Mr. Farby and seconded by Mr. Organ that the month of April be the unanimous choice of the Ambraw Chapter for the holding of the state meeting. Motion carried.

The next order of business was the arrangement for the next regular meeting. A discussion followed as to the possibilities of holding the next chapter meeting with the Illinois Society of State Highway Engineers. A motion was made by Mr. Lyons and seconded by Mr. Benefiel that such a meeting be held if arrangements could be made.

Mr. Hemline, Chapter Representative, informed the Ambraw Chapter of an invitation extended by the Capital Chapter to attend a meeting to be held May 1st, 1951. The meeting is to be an open forum with the representatives from all chapters taking part in the discussion.

The business session then adjourned to view a motion picture, "Desert Venture." The picture shown by Mr. Morris Sparks, Representative of the Texas Oil Co. gave us interesting highlights on the oil operations in Arabia.

Meeting adjourned at 9:45 p.m.

JOHN A. HARDWICK, *Secretary*

### DuKane Chapter

A most enjoyable chop suey dinner preceded the regular meeting on May 17, 1951, at the Red Lion Inn, with 21 members and guests present.

The calling of the meeting to order at 8:05 p.m. was followed by the introduction of guests, among them being R. A. Andreasen who is currently on active duty with the Armed Forces and was home on furlough.

The minutes of the March meeting were read and approved.

Under old business, the matter of a change in date for the Annual Meeting was again brought up. Motion by Eng'r Roy, seconded by Eng'r Stevens was unanimously carried to rescind the motion recorded in last month's minutes regarding instructions to the Chapter Representative. A replacement motion by Eng'r Walter Deuchler, seconded by Eng'r Stevens, was unanimously carried to instruct Chapter Representative Roy to advocate that the Annual Meeting be held in April or May.

Our invitation to attend Chicago Chapter's June meeting was again brought to the attention of the mem-

bership. Dinner is scheduled in the Faculty Dining Room of the University of Illinois, Navy Pier Branch, at 6:30 p.m. on June 5th. Reservations must be in by June 1st and may be made with Prof. C. I. Carlson, Navy Pier, Chicago 11, Ill.

Eng'r Cash discussed our dwindling attendance due to increased vocational activity in the summer months, and in addition to taking off the months of July and August, he moved that the June meeting be dispensed with, with the idea that many of the members would attend the Chicago Chapter's June meeting. The Secretary would send out notices of the Chicago meeting in the usual manner, and also inform the members that the next regular meeting would be on Thursday, September 20th, at the Red Lion Inn and at the usual time. Second by Eng'r Bloomberg and unanimously carried.

Eng'r F. S. Weir introduced Dr. Coye Mason of Aurora, as the speaker of the evening. Dr. Mason is Director of Laboratories for Grant Hospital, Chicago; Clinical Assistant Professor of Pathology, University of Illinois Medical School; and Co-Director, Chicago Blood Donor Service. He chose as his topic, "Blood Transfusing, Blood Banking, and Their Functions." The first transfusions were from animals, and satisfactory transfusions were not accomplished until about 1911. It was not until it was recognized that there were blood groups of very distinctive natures, that it was known why transfusions were frequently fatal. During the time of World War I, transfusions were quite satisfactory, but were far from fool-proof. The year 1930 brought knowledge of the highly important "Rh" factor which we now hear so much about, and with it the reason why the same types of blood would sometimes produce violent reactions when mixed. The term "Rh" was adopted because the experiments were conducted on Rhesus monkeys. At present, whole blood may be stored for only 21 days, after which the plasma is separated and retained, and the balance discarded. The plasma may then be stored for long periods. Blood transfusing and banking have progressed far in the last 40 years, and the future may bring about blood banking on a national scale, and at a much reduced cost to the patient.

A long question and answer session followed until the members ran out of questions. Dr. Mason's source of answer material seems inexhaustible.

Eng'r C. J. Vranek has been transferred to the State office of the Division of Highways in Springfield. We are sorry to see him leave us, but congratulations to him for getting a promotion, and we wish him the best of luck.

Meeting adjourned at 10:00 p.m.

GEORGE M. BOOTH, JR., *Secretary*

### Champaign County Chapter

Members and guests met at 6:30 p.m. on April 5, 1951, in Illini Union Cafeteria for a dinner meeting. After dinner those present moved to room 308 Illini Union for the business meeting.



President Anderson opened the meeting and called for introduction of guests. The minutes of the March 2nd meeting were read and approved.

In the absence of any committee reports the meeting was opened to receive new business. Announcement was made by President Anderson of the special meeting at Peoria on April 14, 1951. He also announced the fore-coming Illinois Structural Engineers Conference on April 17 and 18 in Illini University Building. There being no further business the floor was turned over to Dean H. H. Jordon who in turn introduced Mr. James J. Kelly of the Springfield office of the FBI.

Mr. Kelly gave a very interesting and instructive talk on the activities of the FBI. At the conclusion of the formal part of his talk Mr. Kelly answered several questions proposed by various members.

The meeting adjourned at 9:30 p.m. Twenty-three members and guests were present.

J. W. BRISCOE, *Secretary*

### Illinois Valley Chapter

A business meeting and dinner were held at The Pines north of Streator, Illinois, on June 6, 1951. Mr. J. B. Moran, president, called the meeting to order at 8:30 and introduced the guests. Twenty-five members and six guests were present.

The minutes of the previous meeting of March 27th were read and approved.

Mr. Staats, chairman of the Membership Committee, gave his report. Mr. F. L. Dunavan had a written summary of the Board of Direction meeting, which was very interesting. Mr. Moran brought up the question of an Auxiliary but after considerable discussion Mr. Bowman made the motion, and it was seconded by Mr. Harger, that the question be tabled until some later indefinite date. Motion carried.

Mr. Cullen and Mr. Miller gave an interesting resumé of the first meeting of the Illinois Valley Chapter held 12 years ago at Starved Rock Park.

Mr. LaVerne Miller brought up the question of governmental agencies doing private engineering work. There was considerable discussion on this and Mr. Chamlin moved and Mr. McGonigal seconded a motion that the Illinois Valley Chapter go on record as being opposed to any governmental agency engaging in engineering work that is normally handled by private engineering firms; it being understood however, that this objection does not apply to the individual employees of such governmental agencies who may see fit to engage in this work in their free time. Motion carried.

Mr. Moran then introduced Mr. R. C. Elgas, Automotive Engineer of the Standard Oil Company of Indiana. Mr. Elgas gave a very interesting picture of the search for and production of crude oil.

The meeting adjourned at 11:30 p.m.

E. DEAN ANTROBUS, *Secretary*

### Joliet Chapter

The Joliet Engineers' Club members were guests of the Northern Illinois Coal Corporation of Wilmington, Illinois, at a delicious supper meeting held in the Methodist Church in Wilmington on Tuesday, May 15, 1951. The meeting was attended by 20 members and two guests.

Following the supper meeting at 6:30 p.m., Mr. William S. Gray, president of the club, held a short business meeting after which the entire group was conducted through the properties of the Northern Illinois Coal Corporation at which time an inspection of various equipment including a 30-cubic-yard shovel and Manmoth Coal Washer was made.

Following this inspection, President Gray adjourned the meeting at 10:00 p.m.

WILLIAM S. CHANEY, *Secretary*

### St. Clair Chapter

The St. Clair Chapter of Illinois Society of Professional Engineers held its regular monthly meeting on Thursday evening, April 19, 1951, at the Grand Marais State Park Dining Room in East St. Louis, Illinois. Thirty-two members and guests were present for dinner.

President Fred Moore called the meeting to order at 7:30 p.m. Guests were then introduced. The minutes of the March St. Pat's Smoker meeting were read and approved. A report of the president, vice-presidents, membership chairmen, and secretaries' meeting held at Peoria on Saturday, April 14, was given by the president and secretary.

Mr. L. J. Keenan made a motion that the St. Clair Chapter, I.S.P.E., was in favor of changing the time of I.S.P.E. Annual Meeting to the latter part of April. Seconded by Mr. W. J. Nuebling. Motion carried.

Mr. David Johnston spoke on the need of engineers in the Civil Defense effort.

Mr. John T. Daley was introduced by Vice-President Fred Meek. Mr. Daley spoke on "The Use of Diesel Power on American Railroads." He also had a short colored film titled, "Railroad at Work."

MANUEL GARCIA, *Secretary*

### PICK UP YO' FEET

Pick up yo' feet; don't shuffle along!  
 Raise up yo' haid; start hummin' a song!  
 Look wid a smile at folks what yo' meet;  
 Lif' up yo' haid, chile; pick up yo' feet!  
 Raise up yo' thoughts; look up at de sky!  
 Lif' up yo' voice, sing "Hebben is Nigh"!  
 Send all de glooms back whar dey belong;  
 Lif' up yo' feet, and raise up yo' song!  
 Stick out yo' chest, and th'ow out yo' voice!  
 Put back yo' shoulders; praise an' rejoice!  
 Jine dat joy chorus; make it complete.  
 Lif' up yo' heart, an' pick up yo' feet!

—*Select*



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## FROM N.S.P.E. LEGISLATIVE BULLETIN

### National Legislation Pending

Most of the measures before reported in this bulletin as being of interest to the engineering profession are currently dormant in congressional committees. These include the Air Force Reorganization bill (H.R. 1726), passed by the House, but at present inactive in the Senate Armed Service Committee; S. 644 and S. 646 designed to bring 'technical' engineers under the provisions of the wage-hour and similar legislation, now inactive in the Senate Labor and Public Welfare Committee; and H.R. 2940, amending the 1938 Fair Labor Standards Act to except certain engineering products and services from the operation of that Act, now inactive in the House Committee on Education and Labor.

### Manpower and Selective Service

A great deal of unfavorable comment by editors, prominent educators, and members of the Congress has been occasioned by the recently announced Selective Service directives concerning deferment of college students. These directives, approved by the White House, permit deferment to college students who qualify in one of two ways. First, college students in any of the first three years, and in any field of study, who achieve a score of 70& on a centrally controlled aptitude test are to be permitted to continue their studies. College seniors achieving a score of 75& on the same test are permitted to go into graduate study. Alternatively, freshmen in the upper half, sophomores in the upper two-thirds, juniors

in the upper three-quarters, and seniors in the upper half of their respective classes may, in the same way, be deferred for future study.

While there seems to be rather general agreement that provision must be made for deferment of qualified students in technical and scientific courses, not in their interest but in the interest of the country's future needs, the feeling appears general that the announced policy of blanket deferment in all fields is undemocratic, gives the bright or wealthy boy an unfair advantage, and must be modified.

The difficulty of reconciling this action with prior evidence of the smallness of the available manpower pool has been pointed out. Congressional action could alter or eliminate the program as it now stands; in fact, a recently passed House amendment to the bill would make the directives to the Selective Service Boards advisory rather than mandatory.

### Defense Mobilization

In the recently released 'Building America's Might' Director of Defense Mobilization Wilson has once again stressed the fact that manpower deficiencies could become the limiting factor in production and military strength. To make best use of our manpower resources, we, as a nation must, accomplish the following: We must distribute our manpower between the military services and the civilian economy to achieve the best result for the national interest; we must utilize our work force at their highest skills and capacities. Since the



present critical world situation may last for many years, we cannot deplete one of our principal assets—our highly trained personnel in many specialized fields. Enough engineers, scientists, doctors, and other specialists must continue to flow out of our colleges for replacements and to meet the increasing demands of our complex modern society.

Engineers may be assured by statements such as the foregoing that government policy makers are fully aware of the problems confronting the engineering profession in its relation to the country's welfare.

#### **Bills to Implement the Hoover Report**

Nineteen bills and one concurrent resolution dealing with some of the most important, as well as the most controversial, recommendations of the bi-partisan Hoover Commission have been introduced in both Houses of Congress since mid-March. (S. 1134 through 1151; S. 1166; S. Con. Res. 19; H.R. 3303 through 3320)

The Senate measures were mostly sponsored by members of both parties, and although Republican names appear more often on the legislation, the bills may be considered as having bi-partisan support. Because of the nature of this support there is greater likelihood that there will be at least discussion on the merits once the immediate pressure of defense legislation lets up a little.

In introducing the bills the legislators broadly endorsed the principles of good management set forth by the Hoover Commission, and recognized that the recommendations are worthy of review by Congress whether or not they are accepted in detail.

Many believe that the dangerous world situation points up more strongly than ever the necessity for careful and prudent administration of our foreign and domestic programs in order to get better government at a better price.

It is anticipated in addition that approximately 40 reorganization plans will be submitted by President Truman and the Budget Bureau.

While all of the Hoover Commission bills are of interest, at least two are of immediate importance to engineers. The terms of S. 1143 (Companion bill H.R. 3309) would transfer the civil functions of the Army Engineers to the Department of the Interior, putting under that Secretary's jurisdiction flood control, the improvement of rivers and harbors, the functions of the Mississippi River Commission, and the California Debris Commission. The Secretary is authorized to establish a Water Development and Use Service to deal with reclamation, rivers and harbors improvement, flood control, the Bonneville Power Administration, the Southwestern Power Administration, and the Division of Power. By terms of the proposed legislation the Secretary may utilize the Building Construction Service to deal with public building construction, community services, major land construction work for the Coast Guard, hospital construction for other agencies, and civilian airport construction.

S. 1144 (companion bill H.R. 3318) is designed to create a Board of Impartial Analysis composed of five

members of outstanding ability, experience and attainments in the engineering and architectural fields. If created, this board would be charged with making investigations, analyses, and reports, with recommendations concerning all major public projects involving flood control, water supply and development, irrigation reclamation, rivers, harbors, and canals with respect to all contemplated major public, quasi-public hydroelectric power developments. The reports are to include a consideration of the propriety of the projects, and their economic feasibility and benefit to the public, particularly in relation to their ultimate costs.

#### **SANITARY ENGINEERS NEEDED BY STATE OF ILLINOIS**

The State Civil Service Commission has announced open-competitive examinations for Sanitary Engineer I and II for employment with the State of Illinois. Final date to apply is March 23, 1951.

State residence is not necessary for Sanitary Engineer I, but is necessary for Sanitary Engineer II.

Desirable qualifications include college graduation with major courses in sanitary or public health engineering. Experience in sanitary engineering may be substituted year for year for the college training.

Sanitary Engineers receive from \$230 to \$380 a month. Further information and application forms may be obtained from the Illinois Civil Service Commission, 501 Armory Building, Springfield.

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